

JOB NO. 4486 IVORY PRODUCTION
LOAD AND UNLOAD 1/95

HER 01515

FOREMAN'S DAILY TIME REPORT

38 NO 4486

DATE 1-6-73

CLASS NO. _____

JUDGE NO.	NAME
--------------	------

272 JUAN RIVERA

41 SAM. PETTIT

25 JIMMY JACKSON

00 LARRY BALLINGER

TOTAL HOURS

54

Good Year
Quality
and Durability

Chenopodium 1 lb

HER 01516

TOTAL HOURS

GNED E. J. Edwards
FOREMAN

CODED
AND
EXTENDED
BY

APPROVED BY George C. Baker

IVORY PRODUCTION CO.

PURCHASE ORDER

P.O. NUMBER

DATE

2010

01/18/95

VENDOR:

Hercules
P O Drawer 0
Freeport, TX 77541

SHIP TO:

IVORY PRODUCTION CO.
2834 HIGHWAY 332 EAST
FREEPORT, TX 77541

QUANTITY	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
2 HRS 1	LABOR JOURNEYMAN CHERRYPICKER	\$ 27.00	\$ 54.00 50.00
<p>AN INCREASE IN THIS PURCHASE ORDER AMOUNT MUST FIRST BE APPROVED OF BY IVORY PRODUCTION CO.</p> <p>**INVOICES SUBMITTED FOR SERVICES PROVIDED HEREUNDER MUST REFERENCE THE ATTACHED PURCHASE ORDER NUMBER FOR PAYMENT**</p> <p>CHECK #:</p> <p>G/L CODE: 6101-0049</p>		<p>FREIGHT:</p> <p>TAX:</p> <p>TOTAL</p>	<p>EXEMPT</p> <p>\$ 104.00</p>
<p>NOTES:</p> <p>SUBJECT TO TERMS AND CONDITIONS ON BACK OF FORM</p>		<p><i>VM 1/24/95</i></p> <p>AUTHORIZED SIGNATURE</p>	

HER 01517

HERCULES

MARINE SERVICES CORPORATION

P. O. Drawer O • Freeport, Texas 77541

INVOICE NO. : 2760-95

DATE : Jan 9, 1995

Job No. : 4486-1

Location : Freeport Yard

TO: Ivory Proudction
Eleven Greenway Plaza
Suite 1606
Houston, Texas 77046

PLEASE REMIT PAYMENTS TO:
11011 RICHMOND
SUITE 500
HOUSTON, TX. 77042

P. O. # IV-2010

Terms : Net 30

FOR:

Services as follows: GAL-296-B

Load oil drums: 1-tote caf-6060
1-tote cp-4040
2-55 gal drums hyd 32
1-55 gal drum rotela T-40
1-55 gal drum CJI 500
2-30 gal drum 500-D

Labor: Journey 2 @ 27.00
Equip: Cherrypicker 1 @ 50.00

TOTAL AMOUNT DUE:-

\$ 54.00
50.00
\$ 104.00

Arrived: 1/6

PHONE: (409) 233-6371

Strength through Experience, Equipment, Know-How

HER 01518

STRAIGHT BILL OF LADING

ORIGINAL - NOT NEGOTIABLE

Shipper No. _____

Carrier No. _____

Date 12-28-94

Page ____ of ____

Chemjet International
(Name of carrier)

(SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1

TO:

Consignee Iron ProductionStreet Henderson DockCity Support State TX Zip Code _____

FROM:

Shipper

CHEMJECT INTERNATIONAL

Street 1136 North Kirkwood

City Houston State TX Zip Code 77043

24 hr. Emergency Contact Tel. No. (713) 556-6616

Route

Vehicle
Number

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class Identification Number (UN or NA) per 172.101, 172.202, 172.203	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
1-TOTE	N/R	Jet Heat - 6060 not Regulated	110 Gallons			
1-TOTE	UN 1993	Jet Break - 2500 Flammable Liquid - N.O.S.	110 Gallons	Cancelled		
2- 1/20	UN 1993	Jet - D - 500 Flammable Liquid - N.O.S.	60 Gallons			
1-TOTE	UN 1993	CP - 4040 Flammable Liquid - N.O.S.	250 Gallons			
2- 1/55	N/H	Citgo Aw-32 - Hydraulic fluid non-hazardous material	110 Gallons			
1- 1/55	N/H	Shell Rotella 40wt Motor Oil non-hazardous material	55 Gallons			
1- 1/55	UN 1719	Jet Clean 500 Caustic Liquid - N.O.S.	55 Gallons			

PLACARDS TENDERED: YES ☒ NO ☐REMIT
C.O.D. TO:
ADDRESS

COD

Amt: \$

C.O.D. FEE:
PREPAID ☐
COLLECT ☐ \$TOTAL
CHARGES: \$

FREIGHT CHARGES

FREIGHT PREPAID ☐ Check box if charges
are to be collectedNote: Where the rate is dependent on value, shippers are
required to state specifically in writing the agreed or declared
value of the property.
The agreed or declared value of the property is hereby
specifically stated by the shipper to be not exceedingI hereby declare that the contents of this consignment are
fully and accurately described above in proper shipping
name and are classified, packed, marked and labeled, and
are in all respects in proper condition for transport by Rail &
Highway & Water (DELETE NON-APPLICABLE MODE OF
TRANSPORT) according to applicable international and na-
tional governmental regulations.

Signature

Subject to Section 7 of the conditions, if this shipment is to be delivered to the
consignee without recourse to the consignor, the consignor shall sign the
following statement:
The carrier shall not make delivery of this shipment without payment of
freight and all other lawful charges.James C. Jackson
Signature of ConsignorRECEIVED: subject to the classifications and lawfully used terms in effect on the date of the issue of
this Bill of Lading, the property described above in apparent good order, except as noted (contents and
condition of contents of packages unknown), marked, consigned, and destined as indicated above
which said carrier (the word carrier being understood throughout this contract as meaning any person or
corporation in possession of the property under the contract) agrees to carry to its usual place of
delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said
destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion ofsaid route to destination and as to each party at any time interested in all or any said property, that every
service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the
governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the
governing classification and the said terms and conditions are hereby agreed to by the shipper and
accepted for himself and his assigns.SHIPPER Chemjet International

PER

CARRIER Chemjet International

PER

DATE 12-28-94

Permanent post-office address of shipper:

PRINTED ON RECYCLED PAPER
USING SOYBEAN INK

STYLE F65 LABELMASTER, An American Labelmark Co., Chicago, IL 60646 800/621-5808

HER 01519

12-30-94

To: Hughes
FR: Ivory

THE FOLLOWING PAGE IS WHATS AT YOUR
LOCATION FOR THE NEXT BOAT LOAD OUT.
For info Gal 246-B Phone # 404-233-8544
(JAMES WATTS)

ENTER THE LIST
M. / V ~

GAL 296-B ~ IVORY

- 1- TOTE CAF-6060
- 1- TOTE CP- 4040
- 2- 55 GAL Drums HYD 32
- 1- 55 GAL Drum ROTELAT-40
- 1- 55 GAL Drum CSI 500
- 2- 30 GAL Drum 500-D

GAL 321 APACHE

- 2- 55gal Drums Jet BICAL 2323
- 1- TOTE Jet TREAT 6060

HER 01521

0.00

LABOR HOURS

[illegible]

LABOR HOURS con't

[illegible]

HER 01522

JOB COST WORKSHEET

Barge Name/# : LOADING

0.00	TOTAL JOB COST	:	141.01
	AMOUNT BILLED	:	104.00
	PROFIT/(LOSS)	:	62.99

WASTE WATER DISPOSAL

x \$ 0.35 per gallon = \$: 0.00

MATERIALS

[illegible]

MATERIALS. con't

[illegible]

HER 01523

Material Safety Data Sheet

May be used to comply with
OSHA's Hazard Communication Standard,
29 CFR 1910.1200. Standard must be
consulted for specific requirements.

U.S. Department of Labor

Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072



IDENTITY (As Used on Label and List)

DEFOAMER D-16/D-18

Note: Blank spaces are not permitted. If any item is not applicable, or no
information is available, the space must be marked to indicate that.

Section I

Manufacturer's Name

SHARP CHEMICAL COMPANY

Emergency Telephone Number

(713) 641-1444

Address (Number, Street, City, State, and ZIP Code)

6700 DIXIE DRIVE

Telephone Number for Information

(713) 641-1444 or FAX 641-5121

HOUSTON, TX 77087

Date Prepd

September 1, 1994

Signature of Preparer (optional)

Section II — Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))

OSHA PEL

ACGIH TLV

Other Limits
Recommended

% (optional)

POTASSIUM HYDROXIDE

ALIPHATIC HYDROCARBON

EMERGENCY RESPONSE NUMBERS

Days: (713) 641-1444

Nights/Weekends: (713)

451-8182, 649-6920,

438-7300

Section III — Physical/Chemical Characteristics

Boiling Point

217°C

Specific Gravity (H₂O = 1)

.85

Vapor Pressure (mm Hg.)

<4mmHG

Melting Point

N/A

Vapor Density (AIR = 1)

> 6

Evaporation Rate

(Butyl Acetate = 1)

< 0.07

Solubility in Water

VARIABLE

Appearance and Odor

DARK LIQUID - HYDROCARBON ODOR

Section IV — Fire and Explosion Hazard Data

Flash Point (Method Used)

180°F (TCC)

Flammable Limits

LEL

UEL

Extinguishing Media

WATER SPRAY, FOAM, DRY CHEMICAL, or CARBON DIOXIDE.

Special Fire Fighting Procedures

COOL FIRE-EXPOSED CONTAINERS with WATER.

HER 01524

Unusual Fire and Explosion Hazards

COMBUSTIBLE. KEEP away from HEAT, SPARKS, and FIRE.

(Reproduce locally)

OSHA 174, Sept. 1985

Section V — Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	XXX	KEEP away from HEAT, SPARKS, and OPEN FLAMES.

Incompatibility (Materials to Avoid)

AVOID CONTACT with STRONG OXIDIZING AGENTS.

Hazardous Decomposition or Byproducts

NONE

Hazardous Polymerization

May Occur

Conditions to Avoid

Will Not Occur

XXX

Section VI — Health Hazard Data

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
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Health Hazards (Acute and Chronic)

OVEREXPOSURE to SKIN and RESPIRATORY TRACT MAY CAUSE
IRRITATION and/or DIZZINESS.

Carcinogenicity:

NTP?

IARC Monographs?

OSHA Regulated?

Signs and Symptoms of Exposure

LIQUID IS IRRITATING to EYES. MAY BE HARMFUL if SWALLOWED or
ABSORBED THROUGH SKIN. DIZZINESS, DERMITTUS, DE-OILS SKIN...

Medical Conditions

Generally Aggravated by Exposure

FLUSH EYES for 15 MINUTES and GET MEDICAL ATTENTION. WASH SKIN

Emergency and First Aid Procedures

THOROUGHLY with SOAP and WATER and GET MEDICAL ATTENTION if
REDNESS or SWELLING OCCURS. LAUNDRY CLOTHES BEFORE REUSE.**Section VII — Precautions for Safe Handling and Use**

Steps to Be Taken in Case Material Is Released or Spilled

EXTINGUISH ALL SOURCES OF IGNITION. WASH DOWN with WATER or SOAK UP on SAND and DISPOSE
of in an APPROVED INDUSTRIAL WASTE LANDFILL. DO NOT WASH DOWN with WATER WHERE RUN-OFF
WILL CONTAMINATE IMPORTANT WATER SOURCES.

Waste Disposal Method

INCINERATE in an INCINERATOR EQUIPPED with an AFTERBURNER and SCRUBBER
or BURY in an APPROVED INDUSTRIAL LANDFILL.

Precautions to Be Taken in Handling and Storing

KEEP CONTAINERS' LIDS TIGHTLY CLOSED. USE GOGGLES and GLOVES
WHEN POURING (HANDLING):

Other Precautions

Section VIII — Control Measures

Respiratory Protection (Specify Type)

NONE REQUIRED in NORMAL OUTSIDE USE.

Ventilation

Local Exhaust

Special

Mechanical (General)

Other

Protective Gloves

RUBBER GLOVES

Eye Protection

FACE SHIELD or GOGGLES

Other Protective Clothing or Equipment

RUBBER BOOTS and APRON if POSSIBILITY of CONTACT DURING USE EXISTS.

Work/Hygienic Practices

Section V — Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	XXX	
Incompatibility (Materials to Avoid) NONE			
Hazardous Decomposition or Byproducts NONE			
Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	XXX	

Section VI — Health Hazard Data

Route(s) of Entry:	Inhalation? USE OXYGEN INHALER	Skin? WASH WITH WATER	Ingestion? RINSE WITH BORIC ACID SOLUTION	NONE
Health Hazards (Acute and Chronic) SEE SECTION II				

Carcinogenicity:	NONE	NTP?	NONE	IARC Monographs?	NONE	OSHA Regulated?	NONE
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Signs and Symptoms of Exposure	SKIN: SLIGHT BURNING IRRITATION AND DRY SKIN
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Medical Conditions Generally Aggravated by Exposure	
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Emergency and First Aid Procedures	SKIN: FLUSH WITH WATER
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Section VII — Precautions for Safe Handling and Use

Steps to Be Taken in Case Material Is Released or Spilled

IF SPILLED - WASH WITH WATER

Waste Disposal Method	DISPOSE OF IN ACCORDANCE TO LOCAL, STATE, AND FEDERAL REGULATIONS
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Precautions to Be Taken in Handling and Storing	STORAGE: STORE IN WELL-VENTILATED AREA
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Other Precautions	NONE
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Section VIII — Control Measures

Respiratory Protection (Specify Type)	NONE
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Ventilation	Local Exhaust	SUFFICIENT	Special	NONE
	Mechanical (General)	NONE	Other	NONE

Protective Gloves	RUBBER GLOVES	Eye Protection	GOGGLES
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Other Protective Clothing or Equipment	NONE
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Work/Hygienic Practices	NONE
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HER 01526

Material Safety Data Sheet
May be used to comply with
OSHA's Hazard Communication Standard,
29 CFR 1910.1200. Standard must be
consulted for specific requirements.

U.S. Department of Labor
Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072



IDENTITY (As Used on Label and List)
SC-500

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Section I

Manufacturer's Name SHARP CHEMICAL COMPANY	Emergency Telephone Number (713) 641-1444
Address (Number, Street, City, State, and ZIP Code) 6700 DIXIE DRIVE	Telephone Number for Information (713) 641-1444
HOUSTON, TX 77087	Date Prepared November 01, 1994
	Signature of Preparer (optional)

Section II — Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity, Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
2-BUTOXYETHANOL		50		4%
SODIUM HYDROXIDE				1.5%
EMERGENCY RESPONSE #'S				
DAYS- (713) 641-1444				
NIGHTS & WEEKENDS				
(713) 438-7300, 649-6920				
451-8182				

INFORMATION SATISFIES THE REQUIREMENTS FOR SARA TITLE III

Section III — Physical/Chemical Characteristics

Boiling Point	> 220°F	Specific Gravity (H ₂ O = 1)	1.06
Vapor Pressure (mm Hg.)	NONE	Melting Point	NONE
Vapor Density (AIR = 1)	NONE	Evaporation Rate (Butyl Acetate = 1)	NONE
Solubility in Water	COMPLETE		
Appearance and Odor	YELLOWISH AMBER-BUTYL ODOR		

Section IV — Fire and Explosion Hazard Data

Flash Point (Method Used)	ABOVE 200°F	Flammable Limits	NONE	LEL	NONE	UEL	NONE
Extinguishing Media	H ₂ O - CO ₂						
Special Fire Fighting Procedures	NONE						
Unusual Fire and Explosion Hazards	NONE						

HER 01527

MATERIAL SAFETY DATA SHEET

JET TREAT 6060

1 HMT - BLEND
1 HMT - FLAMMABILITY
0 HMT - REACTIVITY
- HMT - PERSONAL PROTECTION

SECTION I - IDENTIFICATION

COMPANY NAME.....CHEMJET

Convec TX 77305

PHONE NUMBER.....(210) 607-2155
EMERGENCY PHONE NUMBER.....(800) 737-9875
EFFECTIVE DATE.....OCTOBER, 1993
TRADE NAME.....JET TREAT 6060
CHEMICAL FAMILY.....WATER TREATING CHEMICAL
AT NUMBER.....Blend
CHEMICAL FORMULA.....Confidential

SECTION II - HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS.....TLV (UNION).....PROD CAS #

ALL HAZARDOUS AS DEFINED
IN 29 CFR 1910.1000

SECTION III - PHYSICAL DATA

BOILING POINT(F).....ND
FREEZING POINT (F).....ND
VAPOR PRESSURE (mm Hg).....ND
VAPOR DENSITY (AIR=1).....ND
VOLATILITY/VOL(A).....2%
SOLUBILITY IN H2O.....Soluble
APPEARANCE/ODOR.....Amber Liquid
SPECIFIC GRAVITY (H2O=1).....0.90 TO 1.01
PH.....4.5 TO 5.5

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT.....Not Flammable Exemption 49 CFR 173.150(c)(1)
LOWER FLAME LIMIT.....ND
UPPER FLAME LIMIT.....ND
EXTINGUISH MEDIA.....DRY POWDER, CARBON DIOXIDE (CO2), "ALCOHOL FOAM"
UNUSUAL FIRE HAZARD.....Containers may explode from internal pressure if
confined to fire. Cool with water. Keep unnecessary
people away.

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE.....NONE

MATERIAL SAFETY DATA SHEET

JET TREAT 6060

ROUTES OF ENTRY	INHALATION? IRRITANT	SKIN? IRRITANT	INGESTION? IRRITANT
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HEALTH HAZARDS Acute. Inhalation of vapors may be narcotic and can be fatal. Ingestion of liquid will cause gastrointestinal distress, irritation, possibly nausea, and can be fatal. Liquid or vapors may be irritating to skin and eyes.

ARCINOGENICITY NO	NTP? NO	IARC MONOGRAPH? NO	OSHA REGULATED NO
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ADDITIONAL EXPOSURE EFFECTS ... Skin irritation develops slowly after contact. Eye irritation develops immediately upon contact. Signs of Inhalation Overexposure: Irritation of Respiratory Tract, Nervous System Depression, Headaches, Dizziness, Staggering Gait, Confusion, Unconsciousness, Coma.

FIRST AID PROCEDURES..... IN CASE OF EYE CONTACT, FLUSH IMMEDIATELY WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES AND GET MEDICAL ATTENTION; FOR SKIN, WASH THOROUGHLY WITH SOAP AND WATER. IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION, PREFERABLY MOUTH-TO-MOUTH. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET MEDICAL ATTENTION. IF SWALLOWED, INDUCE VOMITING IMMEDIATELY BY GIVING TWO GLASSES OF WATER AND STICKING FINGER DOWN THROAT. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

SECTION VI - REACTIVITY DATA

HEMICAL STABILITY..... Stable

CONDITIONS TO AVOID..... None

INCOMPATIBLE MATERIALS... Oxidizers or Oxidizing Materials

DECOMPOSITION PRODUCTS .. FROM FIRE: SMOKE, CARBON DIOXIDE, CARBON MONOXIDE, AND OXIDES OF NITROGEN

HAZARDOUS POLYMERIZATION. Will not occur

POLYMERIZATION AVOID..... None

SECTION VII - SPILL OR LEAK PROCEDURE

FOR SPILL In case of spillage, absorb with inert material and dispose of in accordance with applicable regulations.

WASTE DISPOSAL METHOD.... Industrial Waste. Follow State Regulations.

SECTION VIII - SPECIAL PROTECTION

RESPIRATORY PROTECTION... NIOSH approved Organic Vapor Mask recommended

CONTAMINATION..... Desired in closed places

MECHANICAL EXHAUST..... Desired

MATERIAL SAFETY DATA SHEET

JET TREAT 6060

LOCAL EXHAUST..... Desired in closed places
PROTECTIVE GLOVES..... Chemical Type suitable for alcohol solvents.
EYE PROTECTION..... Chemical Goggles or Full Face Shield recommended
OTHER PROTECTIVE
EQUIPMENT..... NOT NORMALLY NEEDED

SECTION IX - SPECIAL HANDLING AND OOT

HANDLING AND STORAGE..... Store in a cool place away from ignition sources.
Store away from oxidizers or materials bearing a
yellow "DOT" label.
PRECAUTIONARY MEASURES... Keep away from heat, sparks and flame. Use with
adequate ventilation. Do not breathe vapors. Avoid
prolonged or repeated contact with skin.
HAZARD CLASS..... NONE
DOT SHIPPING NAME..... JET TREAT 6060, NOT REGULATED
REPORTABLE QUANTITY (RQ)... NONE
UN NUMBER..... NONE
UN #..... NONE
PACKAGING SIZE..... Bulk and Drums

DOT NOTES..... N/A=NOT APPLICABLE - N/D=NO DATA AVAILABLE
(=LESS THAN -)=GREATER THAN
APP - APPROXIMATE - EST.=ESTIMATED

PREPARED BY..... LARRY W. GALLIN, 210/621-2150
REVISED DATE..... OCTOBER, 1993

THIS PRODUCT'S HEALTH AND SAFETY INFORMATION IS PROVIDED TO ASSIST OUR CUSTOMERS
IN ASSESSING COMPLIANCE WITH HEALTH, SAFETY AND ENVIRONMENTAL REGULATIONS. THE
INFORMATION CONTAINED HEREIN IS BASED ON DATA AVAILABLE TO US, AND IS BELIEVED
TO BE ACCURATE, ALTHOUGH NO GUARANTEE OR WARRANTY IS PROVIDED OR IMPLIED BY THE
COMPANY IN THIS RESPECT. SINCE THE USE OF THIS PRODUCT IS WITHIN THE EXCLUSIVE
CONTROL OF THE USER, IT IS THE USER'S RESPONSIBILITY TO DETERMINE THE
CONDITIONS OF SAFE USE. SUCH CONDITIONS MUST COMPLY WITH ALL GOVERNMENTAL
REGULATIONS.

ALL MATERIALS IN THIS PRODUCT ARE PRODUCED IN COMPLIANCE WITH PUBLIC LAW
94-469, (ALSO KNOWN AS THE "TOXIC SUBSTANCES CONTROL ACT" OF 1976.)

MATERIAL SAFETY DATA SHEET

JET TREAT 6060

TRADE NAME..... JET TREAT 6060

SIGNAL WORD..... CAUTION!

STATEMENT OF HAZARD..... CAUSES IRRITATION

DOT LABEL REQUIRED..... NONE

5/21/1993

HER 01531

MATERIAL SAFETY DATA SHEET

JET TREAT 6060

ENVIRONMENTAL DATA SHEET

SECTION I - IDENTIFICATION

COMPANY NAME.....CHEMJET

PHONE NUMBER.....(210) 621-2156
EMERGENCY PHONE NUMBER...1(800) 732-9876
EFFECTIVE DATE.....OCTOBER, 1993
TRADE NAME.....JET TREAT 6060
CHEMICAL FAMILY.....WATER TREATING CHEMICAL

SPECIAL NOTICE: In accordance with 40 CFR 372.45, this product contains the following materials which have been classified as TOXIC under SARA Title III, Section 313. This page is a part of the Material Safety Data Sheet describing the above named product and shall not be detached. Any reproduction or distribution of this Material Safety Data Sheet after January 1, 1989 must include this page.

SECTION XI - SARA TITLE III, SECTION 313

TOXIC CHEMICALS

2

PROD. CAS #

NONE

SECTION X - ENVIRONMENTAL DATA

ACUTE HAZARD.....ACUTE

ECOA RQ VALUE.....NONE

ARA TPQ.....NONE

ARA RQ.....NONE

SARA HAZARDOUS WASTE.....NONE

CLEAN AIR.....NONE

CLEAN WATER.....NONE

CHEM JECT, INC.

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME AND SYNONYMS: CP 4040

CAS NO. AND NAME: NA

CHEMICAL FAMILY: PARAFFIN SOLVENTS

CHEMICAL FORMULA: PROPRIETARY

MANUFACTURER'S NAME AND ADDRESS: CHEM JECT, INC.
1136 N. KIRKWOOD
HOUSTON, TEXAS 77043

EMERGENCY TELEPHONE NO.: (713) 556-6616

SECTION II - HAZARDOUS COMPONENTS

See Page 5 for Hazard Ratings and Index

<u>COMPONENT (CAS Registry No.)</u>	<u>WT. %</u>	<u>ACGIH TLV®</u>	<u>OSHA PEL</u>
XYLENES (1300-71-6)	AP 25	45ppm	
MIXED PHENOLIC ACIDS (1319-77-3)	AP 2.0	NE	NE

SECTION III - PHYSICAL PROPERTIES

APPEARANCE AND ODOR: CLEAR LIQUID WITH LIGHT SOLVENT ODOR

MOLECULAR WEIGHT: NA (BLEND)

BOILING POINT (DEGREES FAHRENHEIT): NE

MELTING POINT (DEGREES FAHRENHEIT): NA

VAPOR PRESSURE (mm OF MERCURY): NA

SPECIFIC GRAVITY (WATER = 1): 0.730

VAPOR DENSITY (AIR = 1): <1

PERCENT VOLATILE (BY WEIGHT): AP 75

PH: NA

SOLUBILITY IN WATER: Negligible

EVAPORATION RATE (BUTYL ACETATE =1): <1

SECTION IV - FIRE AND EXPLOSION DATA

FLASH POINT (DEGREES FAHRENHEIT; PMCC): <20°F

FIRE EXTINGUISHING MEDIA: Foam, carbon dioxide, water spray, dry chemical.

FLAMMABLE LIMITS (PERCENT BY VOLUME):

<u>LOWER</u>	<u>UPPER</u>
<1.4	

SPECIAL FIRE FIGHTING PROCEDURES & EQUIPMENT: Stop source of fuel. Keep exposed equipment cool with water spray.

UNUSUAL FIRE & EXPLOSION HAZARDS: Product is extremely flammable. Keep away from any heat.

HAZARDOUS COMBUSTION PRODUCTS: Toxic vapors form xylene as well as phenolic gases may be emitted during fire.

SECTION V - REACTIVITY DATA

STABILITY:

<u>UNSTABLE</u>	<u>STABLE</u>	<u>X</u>
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CONDITIONS TO AVOID: High temperatures .

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: Phenolic gases may be possible.

HAZARDOUS POLYMERIZATION:

<u>WILL OCCUR</u>	<u>WILL NOT OCCUR</u>	<u>X</u>
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CONDITIONS TO AVOID: NE

HER 01534

SECTION VI - HEALTH HAZARD INFORMATION

EXPOSURE FROM ROUTINE USE: Eye and skin contact may result in burns if product is not washed off immediately.

EFFECTS OF OVEREXPOSURE: Skin and eye irritant with possible severe burns to eyes. Prolonged breathing may cause dizziness, nausea, and possible CNS interruption.

PROBABLE ROUTES OF EXPOSURE: Skin, eyes, and inhalation.

EMERGENCY AND FIRST AID PROCEDURES:

EYE CONTACT: Flush with large amounts of water for at least 15 minutes. Seek medical attention immediately.

SKIN CONTACT: Wash off thoroughly. If irritation persists immediately seek medical advice.

INHALATION: Immediately remove to fresh air. Administer artificial respiration if necessary. Never give an unconscious victim something to drink. Seek medical attention immediately.

INGESTION: DO NOT INDUCE VOMITING. Seek medical attention immediately.

SECTION VII - TOXICITY DATA

ORAL: LD₅₀ in rats: 639.9 gms/kg

DERMAL: rabbits 1.0 gms/kg

INHALATION: No data available.

CARCINOGENICITY: No component listed as carcinogen- IARC<NTP<OSHA

OTHER PERTINENT DATA: Product is FLAMMABLE. Caution should be taken care when handling this product. Product may result in skin burns if prolonged exposure is noted.

HER 01535

SECTION VIII - SPECIAL PROTECTION INFORMATION

PERSONAL PROTECTIVE EQUIPMENT

PROTECTIVE GLOVES: Rubber or neoprene gloves.

EYE PROTECTION: Safety goggles and/or face shield.

RESPIRATORY PROTECTION (SPECIFY TYPE): Organic vapor canister approved by NIOSH if adequate ventilation is not available.

OTHER PROTECTIVE EQUIPMENT: Use impervious clothing as necessary to avoid prolonged or repeated contact with the product.

VENTILATION:

LOCAL EXHAUST: See below.

MECHANICAL (GENERAL): Use mechanical ventilation when proper ventilation is unavailable.

SPECIAL: Only if proper ventilation is not available.

SECTION IX - SPILL, LEAK AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Eliminate all ignition sources. Contain the spill immediately. Report all spills of the product to local, state, and federal authorities so immediate action is taken to prevent the product to reach aquatic life.

WASTE DISPOSAL METHODS: All methods used in the disposal of this product should be in accordance with all local, state, and federal regulations. Disposals are done according to those regulations.

CLEAN WATER ACT REQUIREMENTS: Data on this material has not yet been determined.

RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) REQUIREMENTS: Not yet determined.

HAZARD RATINGS

NFPA HAZARD RATINGS

4-Extreme
3-High
2-Moderate
1-Slight
0-Insignificant

Product ID

Fire

Health



Reactivity

Special

HMIS HAZARD INDEX

Hazardous 4-Severe
Materials 3-Serious
Identification 2-Moderate
System 1-Slight
0-Minimal

HMIS Ratings

Health.....
Flammability.....
Reactivity.....
Personal Protection.....
(See Below for Explanation)

Letter Designations of Personal Protective Equipment

Safety Glasses.....A
Safety Glasses, Gloves.....B
Safety Glasses, Gloves, Synthetic Apron.....C
Face Shield, Gloves, Synthetic Apron.....D
Safety Glasses, Gloves, Dust Resp.....E
Safety Glasses, Gloves, Syn Apron, Dust Resp.....F
Safety Glasses, Gloves, Vapor Resp.....G
Splash Goggles, Gloves, Syn Apron, Vapor Resp.....H
Safety Glasses, Gloves, Combo Dust and Vapor Resp.....I
Splash Goggles, Gloves, Synthetic Apron, Combo Dust and V Resp.....J
Airline Hood or Mask, Gloves, Full Protective Suit, Boots.....K
Situations Requiring Specialized Handling.....X

SECTION X - REGULATORY INFORMATION

USDA: NA

FDA: NA

CPSC: NA

TSCA: XYLENE-1300-71-6, PHENOLS-1319-77-3, ALL OTHER COMPONENTS ARE LISTED
AND REPORTED

DOT:

PROPER SHIPPING NAME: JET STIM
4040

FLAMMABLE LIQUID, NOS
FLAMMABLE LIQUID, UN-1993

HAZARD CLASS: FLAMMABLE

LABEL REQUIRED: YES

IDENTIFICATION NO.:

OTHER PERTINENT INFORMATION:

EPA: Superfund Amendments & Reauthorization Act (SARA) Title III;
Section 313, Supplier Notification.

Chemical

CAS #

Weight Percent

SECTION XI - SPECIAL PRECAUTIONS AND COMMENTS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

OTHER PRECAUTIONS:

REGISTRATIONS/CERTIFICATIONS:

EFFECTIVE DATE:

Supersedes any previous MSDS.

IMPORTANT: The information and data herein are believed to be accurate and have been compiled from sources believed to be reliable. It is offered for your consideration, investigation and verification. Buyer assumes all risk of use, storage and handling of the product in compliance with applicable Federal, state, and local laws and regulations. CHEM JECT, INC. MAKES NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, CONCERNING THE ACCURACY OR COMPLETENESS OF THE INFORMATION AND DATA HEREIN. THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE SPECIFICALLY EXCLUDED. CHEM JECT, INC. will not be liable for claims relating to any use of this product.

JOB WORKSCOPE/BREAKDOWN

JOB NO: 4486 CUSTOMER: Quincy BARGE: load

FOREMAN:	S/T	@ 36.00	
	O/T	@ 51.75	
LEADMAN:	S/T	@ 33.50	
	O/T	@ 48.00	
JOURNEY:	S/T	@ 31.00	
	O/T	@ 44.25	

2700.25

54.00

DISPOSAL: _____ gal @ .35

MATERIAL: _____ plus 20%

STOCK MATERIAL: _____ PLUS 20%

EQUIP:

COMPRESSOR	@ 44.00	
AIR MOVERS	@ 5.00	
FORKLIFT	@ 20.00	
TUGBOAT	@ 80.00	
STEAM RIG	@ 80.00	
VACUUM	@ 18.00	
HAND HOSE	@ 10.00	
WELDING MACHINE	@ 15.00	
CHERRY PICKER	1 @ 50.00	<u>50.00</u>
CRANE	@ 130.00	
FLATBED TRUCK	@ 20.00	
3" GAS PUMP	@ 14.00	
2" STRIPPING PUMP	@ 12.00	
BUTTERWORTH	@ 10.00	
4" ELECT PUMP	@ 15.00	
WORK BARGE	@ 35.00	
CUTTING RIG	@ 8.00	
HALL OUT	@ 1100.00 / Day	

Other

ARRIVED: 1-6- COMPLETED: _____ DEPARTED: _____

PRODUCT: _____ LOAD: _____

TOTAL INVOICE : 704.00

SHELL TELLUS(R) OIL 32
65208

11/16/92

SHELL MATERIAL SAFETY DATA SHEET
BE SAFE. READ OUR PRODUCT SAFETY INFORMATION ... AND PASS IT ON.
PRODUCT LIABILITY LAW REQUIRES IT!

***** MATERIAL SAFETY DATA SHEET 60050 - 10 *****

SHELL TELLUS(R) OIL 32

SH MSDS: 60050 - 10

11/16/92

MANUFACTURER'S NAME AND ADDRESS
SHELL OIL COMPANY
PRODUCT SAFETY & COMPLIANCE
P.O. BOX 4320
HOUSTON, TX 77210

TELEPHONE NUMBERS:

24 HOUR EMERGENCY ASSISTANCE

SHELL: 713-473-9461 CHEMTREC: 800-424-9300

GENERAL MSDS ASSISTANCE

SHELL: 713-241-4819

SECTION I | NAME

PRODUCT: SHELL TELLUS(R) OIL 32
CHEM NAME: MIXTURE (SEE SECTION IIA) ACUTE HEALTH HAZARD: 1
CHEM FAMILY: PETROLEUM HYDROCARBON; HYDRAULIC OIL FIRE HAZARD: 1
SHELL CODE: 65208 REACTIVITY: 0

SECTION II-A | PRODUCT/INGREDIENT

NO.	COMPOSITION	CAS	PERCENT
P	SHELL TELLUS OIL 32	MIXTURE	100
1	SOLVENT REFINED, HYDROTREATED HEAVY PARAFFINIC DISTILLATE	64742-54-7	0-99
2	SOLVENT DEWAXED HEAVY PARAFFINIC DISTILLATE	64742-65-0	0-99
3	MINOR ADDITIVES	MIXTURE	<2

NFPA HAZARD RATING: HEALTH 0 FIRE 1 REACTIVITY 0

SECTION II-B | ACUTE TOXICITY DATA

NO.	ACUTE ORAL LD50	ACUTE DERMAL LD50	ACUTE INHALATION LC50
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P NOT AVAILABLE

BASED UPON DATA AVAILABLE TO SHELL, COMPONENT 3 IN THIS PRODUCT IS NOT
HAZARDOUS UNDER OSHA HAZARD COMMUNICATION (29 CFR 1910.1200).

SECTION III | HEALTH INFORMATION

HER 01540

THE HEALTH EFFECTS NOTED BELOW ARE CONSISTENT WITH REQUIREMENTS UNDER THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200).

EYE CONTACT:

BASED ON COMPONENT INFORMATION, PRODUCT IS PRESUMED TO BE PRACTICALLY NON-IRRITATING TO THE EYES.

SKIN CONTACT:

BASED ON COMPONENT INFORMATION, PRODUCT IS PRESUMED TO BE PRACTICALLY NON-IRRITATING TO THE SKIN. PROLONGED AND REPEATED CONTACT MAY RESULT IN SKIN DISORDERS SUCH AS DERMATITIS. OIL ACNE OR FOLLICULITIS. ACCIDENTAL RELEASE UNDER HIGH PRESSURE APPLICATIONS MAY RESULT IN INJECTION OF OIL INTO THE SKIN CAUSING LOCAL NECROSIS.

INHALATION:

THE INHALATION OF VAPORS (GENERATED AT HIGH TEMPERATURES ONLY) OR OIL MIST MAY CAUSE A MILD IRRITATION OF THE MUCOUS MEMBRANES OF THE UPPER RESPIRATORY TRACT.

INGESTION:

BASED ON COMPONENT INFORMATION, PRODUCT IS NO MORE THAN SLIGHTLY TOXIC IF SWALLOWED.

SIGNS AND SYMPTOMS:

IRRITATION AS NOTED ABOVE. NECROSIS MAY BE EVIDENCED BY DELAYED ONSET OF PAIN AND TISSUE DAMAGE A FEW HOURS FOLLOWING HIGH PRESSURE INJECTION.

AGGRAVATED MEDICAL CONDITIONS:

PREEXISTING SKIN AND RESPIRATORY DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

OTHER HEALTH EFFECTS:

THIS PRODUCT AND ITS COMPONENTS ARE NOT CLASSIFIED AS CARCINOGENS BY INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC), NATIONAL TOXICOLOGY PROGRAM (NTP) OR OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).

SECTION IV | OCCUPATIONAL EXPOSURE LIMITS

NO.	OSHA	PEL/CEILING	TLV/TWA	ACGIH	TLV/STEL	OTHER
	PEL/TWA					
P	*5 MG/M3	NONE	*5 MG/M3		*10 MG/M3	NONE

*OIL MIST, MINERAL

SECTION V | EMERGENCY AND FIRST AID PROCEDURES

HER 01541

EYE CONTACT: FLUSH EYES WITH WATER. IF IRRITATION OCCURS, GET MEDICAL ATTENTION.

SKIN CONTACT: REMOVE CONTAMINATED CLOTHING/SHOES WIPE EXCESS FROM SKIN. FLUSH SKIN WITH WATER. FOLLOW BY WASHING WITH SOAP AND WATER. IF IRRITATION OCCURS, GET MEDICAL ATTENTION. IF MATERIAL IS INJECTED UNDER THE SKIN, GET MEDICAL ATTENTION PROMPTLY TO PREVENT SERIOUS DAMAGE; DO NOT WAIT FOR SYMPTOMS TO DEVELOP.

INHALATION: REMOVE VICTIM TO FRESH AIR AND PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GET MEDICAL ATTENTION.

INGESTION: DO NOT INDUCE VOMITING. IN GENERAL, NO TREATMENT IS NECESSARY UNLESS LARGE QUANTITIES OF PRODUCT ARE INGESTED. HOWEVER, GET MEDICAL ADVICE.

NOTE TO PHYSICIAN: IN GENERAL, EMESIS INDUCTION IS UNNECESSARY IN HIGH VISCOSITY, LOW VOLATILITY PRODUCTS, I.E., MOST OILS AND GREASES.

SECTION VI | SUPPLEMENTAL HEALTH INFORMATION

NONE IDENTIFIED.

SECTION VII | PHYSICAL DATA

BOILING POINT (DEG F):	SPECIFIC GRAVITY (H2O=1):	VAPOR PRESSURE (MM HG):
NOT AVAILABLE	0.8816	NOT AVAILABLE

MELTING POINT (DEG F):	SOLUBILITY (IN WATER):	VAPOR DENSITY (AIR=1):
-20 (POUR POINT)	NEGLIGIBLE	NOT AVAILABLE

VIS, CS = 30-32 @
40 DEG C

EVAPORATION RATE (NORMAL BUTYL ACETATE = 1): NOT AVAILABLE

APPEARANCE AND ODOR: CREAM WHITE LIQUID. SLIGHT HYDROCARBON ODOR.

HER 01542

SECTION VIII |

FIRE AND EXPLOSION HAZARDS

FLASH POINT AND METHOD:
370 DEG F. (PMCC)

FLAMMABLE LIMITS/% VOLUME IN AIR:
LOWER: N/AV UPPER: N/AV

EXTINGUISHING MEDIA:

USE WATER FOG, FOAM, DRY CHEMICAL OR CO2. DO NOT USE A DIRECT STREAM OF WATER. PRODUCT WILL FLOAT AND CAN BE REIGNITED ON SURFACE OF WATER.

SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS:

MATERIALS WILL NOT BURN UNLESS PREHEATED. DO NOT ENTER CONFINED FIRE SPACE WITHOUT FULL BUNKER GEAR (HELMET WITH FACE SHIELD, BUNKER COATS, GLOVES AND RUBBER BOOTS), INCLUDING A POSITIVE PRESSURE NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

SECTION IX |

REACTIVITY

STABILITY: STABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS AND MATERIALS TO AVOID:

AVOID HEAT, OPEN FLAMES, AND OXIDIZING MATERIALS.

HAZARDOUS DECOMPOSITION PRODUCTS:

THERMAL DECOMPOSITION PRODUCTS ARE HIGHLY DEPENDENT ON THE COMBUSTION CONDITIONS. A COMPLEX MIXTURE OF AIRBORNE SOLID, LIQUID, PARTICULATES AND GASES WILL EVOLVE WHEN THIS MATERIAL UNDERGOES PYROLYSIS OR COMBUSTION. CARBON MONOXIDE AND OTHER UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED UPON COMBUSTION.

SECTION X |

EMPLOYEE PROTECTION

RESPIRATORY PROTECTION:

IF EXPOSURE MAY OR DOES EXCEED OCCUPATIONAL EXPOSURE LIMITS (SEC. IV) USE A NIOSH-APPROVED RESPIRATOR TO PREVENT OVEREXPOSURE. IN ACCORD WITH 29 CFR 1910.134 USE EITHER AN ATMOSPHERE-SUPPLYING RESPIRATOR OR AN AIR-PURIFYING RESPIRATOR FOR ORGANIC VAPORS AND PARTICULATES.

PROTECTIVE CLOTHING:

WEAR CHEMICAL RESISTANT GLOVES AND OTHER PROTECTIVE CLOTHING AS REQUIRED TO MINIMIZE SKIN CONTACT. NO SPECIAL EYE PROTECTION IS ROUTINELY NECESSARY. TEST DATA FROM PUBLISHED LITERATURE AND/OR GLOVE AND CLOTHING MANUFACTURERS INDICATE THE BEST PROTECTION IS PROVIDED BY NITRILE GLOVES.

ADDITIONAL PROTECTIVE MEASURES:

HER 01543

SECTION XI | ENVIRONMENTAL PROTECTION

SPILL OR LEAK PROCEDURES:

MAY BURN ALTHOUGH NOT READILY IGNITABLE. USE CAUTIOUS JUDGMENT WHEN CLEANING UP LARGE SPILLS. *** LARGE SPILLS *** WEAR RESPIRATOR AND PROTECTIVE CLOTHING AS APPROPRIATE. SHUT OFF SOURCE OF LEAK IF SAFE TO DO SO. DIKE AND CONTAIN. REMOVE WITH VACUUM TRUCKS OR PUMP TO STORAGE/SALVAGE VESSELS. SOAK UP RESIDUE WITH AN ABSORBENT SUCH AS CLAY, SAND OR OTHER SUITABLE MATERIAL; DISPOSE OF PROPERLY. FLUSH AREA WITH WATER TO REMOVE TRACE RESIDUE. *** SMALL SPILLS *** TAKE UP WITH AN ABSORBENT MATERIAL AND DISPOSE OF PROPERLY.

SECTION XII | SPECIAL PRECAUTIONS

MINIMIZE SKIN CONTACT. WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES. LAUNDRY CONTAMINATED CLOTHING BEFORE REUSE. PROPERLY DISPOSE OF CONTAMINATED LEATHER ARTICLES, INCLUDING SHOES, THAT CANNOT BE DECONTAMINATED. STORE IN A COOL, DRY PLACE WITH ADEQUATE VENTILATION. KEEP AWAY FROM OPEN FLAMES AND HIGH TEMPERATURES.

SECTION XIII | TRANSPORTATION REQUIREMENTS

DEPARTMENT OF TRANSPORTATION CLASSIFICATION:
NOT HAZARDOUS BY D.O.T. REGULATIONS

D.O.T. PROPER SHIPPING NAME:

OTHER REQUIREMENTS:

SECTION XIV | OTHER REGULATORY CONTROLS

THE COMPONENTS OF THIS PRODUCT ARE LISTED ON THE EPA/TSCA INVENTORY OF CHEMICAL SUBSTANCES

PROTECTION OF STRATOSPHERIC OZONE (PURSUANT TO SECTION 611 OF THE CLEAN AIR ACT AMENDMENTS OF 1990): PER 40 CFR PART 82, THIS PRODUCT DOES NOT CONTAIN NOR WAS IT DIRECTLY MANUFACTURED WITH ANY CLASS I OR CLASS II OZONE DEPLETING SUBSTANCES.

IN ACCORDANCE WITH SARA TITLE III, SECTION 313, THE ENVIRONMENTAL DATA SHEET (EDS) SHOULD ALWAYS BE COPIED AND SENT WITH THE MSDS.

SECTION XV | STATE REGULATORY INFORMATION

HER 01544

BASED ON INFORMATION AVAILABLE TO SHELL, THIS PRODUCT DOES NOT CONTAIN ANY
CHEMICAL SUBSTANCE REGULATED BY A SPECIFIC STATE LIST.

SECTION XVI | SPECIAL NOTES

PRODUCT REFORMULATED. MSDS REVISED IN SECTIONS II-A, AND EDS SECTION(S) I, TO
REFLECT NEW INGREDIENT(S). THE PERFORMANCE SPECIFICATIONS OF THE PRODUCT HAVE
NOT CHANGED. THE HAZARD EVALUATION OF THE PRODUCT HAS NOT CHANGED.

THE INFORMATION CONTAINED HEREIN IS BASED ON THE DATA AVAILABLE TO US AND IS
BELIEVED TO BE CORRECT. HOWEVER, SHELL MAKES NO WARRANTY, EXPRESSED OR IMPLIED
REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE
THEREOF. SHELL ASSUMES NO RESPONSIBILITY FOR INJURY FROM THE USE OF THE
PRODUCT DESCRIBED HEREIN.

WE ARE PROVIDING OUR MOST RECENT MATERIAL SAFETY DATA SHEET AND/OR
ENVIRONMENTAL DATA SHEET. IF YOU WISH TO RECEIVE UPDATES TO THIS INFORMATION,
PLEASE CALL SHELL'S GENERAL MSDS ASSISTANCE LINE (713-241-4819) TO ENSURE THAT
YOU ARE ADDED TO SHELL'S REGULAR MSDS DISTRIBUTION SYSTEM.

BE SAFE. READ OUR PRODUCT
SAFETY INFORMATION...AND
PASS IT ON. (PRODUCT
LIABILITY LAW REQUIRES IT)

SHELL OIL COMPANY
PRODUCT SAFETY AND COMPLIANCE
P. O. BOX 4320
HOUSTON, TX. 77210

***** ENVIRONMENTAL DATA SHEET 60050 - 05 *****

EDS: 60050 - 05 11/16/92

PRODUCT NAME: SHELL TELLUS(R) OIL 32
PRODUCT CODE: 65208

MANUFACTURER'S NAME AND ADDRESS
SHELL OIL COMPANY
P.O. BOX 4320
HOUSTON, TX 77210

TELEPHONE NUMBERS:
24 HOUR EMERGENCY ASSISTANCE
SHELL: 713-473-9461 CHEMTREC: 800-424-9300

FOR ADDITIONAL INFORMATION ON THIS ENVIRONMENTAL DATA PLEASE
CALL 713-241-2252

HER 01545

SECTION I | PRODUCT COMPOSITION

NO. COMPOSITION	CAS	PERCENT
P SHELL TELLUS OIL 32	MIXTURE	100
1 SOLVENT REFINED, HYDROTREATED HEAVY PARAFFINIC DISTILLATE	64742-54-7	0-99
2 SOLVENT DEWAXED HEAVY PARAFFINIC DI STILLATE	64742-65-0	0-99
3 MINOR ADDITIVES	MIXTURE	<2

SECTION II | SARA TITLE III INFORMATION

NO. EHS RQ* (*1)	EHS TPQ* (*2)	SEC-313 (*3)	313 CATEGORY (*4)	311/312 CATEGORY (*5)
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BASED ON THE DATA AVAILABLE TO SHELL THIS PRODUCT CONTAINS NO SUBSTANCES SUBJECT TO REPORTING OR PLANNING REQUIREMENTS UNDER SARA TITLE III.

- *1 = REPORTABLE QUANTITY OF EXTREMELY HAZARDOUS SUBSTANCE, SEC 302
- *2 = THRESHOLD PLANNING QUANTITY, EXTREMELY HAZARDOUS SUBSTANCE, SEC 302
- *3 = TOXIC CHEMICAL, SEC 313
- *4 = CATEGORY AS REQUIRED BY SEC 313 (40 CFR 372.42), MUST BE USED ON TOXIC RELEASE INVENTORY FORM
- *5 = HAZARD CATEGORY FOR SARA SEC. 311/312 REPORTING
 - HEALTH: H-1 = IMMEDIATE (ACUTE) HEALTH HAZARD
 - H-2 = DELAYED (CHRONIC) HEALTH HAZARD
 - PHYSICAL: P-3 = FIRE HAZARD
 - P-4 = SUDDEN RELEASE OF PRESSURE HAZARD
 - P-5 = REACTIVE HAZARD

SECTION III | ENVIRONMENTAL RELEASE INFORMATION

THIS PRODUCT IS CLASSIFIED AS AN OIL UNDER SECTION 311 OF THE CLEAN WATER ACT. SPILLS ENTERING (A) SURFACE WATERS OR (B) ANY WATERCOURSES OR SEWERS ENTERING/LEADING TO SURFACE WATERS THAT CAUSE A SHEEN MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER, 800-424-8802.

SECTION IV | RCRA INFORMATION

PLACE IN AN APPROPRIATE DISPOSAL FACILITY IN COMPLIANCE WITH LOCAL REGULATIONS.

WE ARE PROVIDING OUR MOST RECENT MATERIAL SAFETY DATA SHEET AND/OR ENVIRONMENTAL DATA SHEET. IF YOU WISH TO RECEIVE UPDATES TO THIS INFORMATION,

HER 01546

PLEASE CALL SHELL'S GENERAL MSDS ASSISTANCE LINE (713-241-4819) TO ENSURE THAT YOU ARE ADDED TO SHELL'S REGULAR MSDS DISTRIBUTION SYSTEM.

SHELL OIL COMPANY
P.O. BOX 4320
HOUSTON, TX 77210

FOR ADDITIONAL INFORMATION ON THIS ENVIRONMENTAL DATA PLEASE CALL
(713) 241-2252

FOR EMERGENCY ASSISTANCE PLEASE CALL
SHELL: (713) 473-9461
CHEMTREC: (800) 424-9300

THIS MSDS HAS BEEN PROVIDED IN AN ELECTRONIC FORMAT FOR USE IN THE CHEMTREC
EMERGENCY RESPONSE PROGRAM AND/OR OTHER APPROVED PROGRAMS. THIS FORMAT MAY
CONTAIN BLANKS WHERE INFORMATION WAS NOT AVAILABLE OR NOT APPLICABLE AND
THEREFORE MAY NOT BE FULLY COMPLIANT WITH THE OSHA HAZARD COMMUNICATION
STANDARD. IF YOU PURCHASE OR USE THIS SHELL PRODUCT AND HAVE NOT RECEIVED
A MSDS FROM SHELL PLEASE CONTACT US AND WE WILL PROVIDE ONE. THIS WILL ENSURE
THAT YOU RECEIVE UPDATES OF THIS INFORMATION.

HER 01547

SHELL ROTELLA(R) OIL 40
54004

03/07/91

SHELL MATERIAL SAFETY DATA SHEET

BE SAFE. READ OUR PRODUCT SAFETY INFORMATION ... AND PASS IT ON.

PRODUCT LIABILITY LAW REQUIRES IT!

***** MATERIAL SAFETY DATA SHEET 71240 - 10 *****

SHELL ROTELLA(R) OIL 40

SH MSDS: 71240 - 10

03/07/91

MANUFACTURER'S NAME AND ADDRESS

SHELL OIL COMPANY
PRODUCT SAFETY & COMPLIANCE
P.O. BOX 4320
HOUSTON, TX 77210

TELEPHONE NUMBERS:

24 HOUR EMERGENCY ASSISTANCE

SHELL: 713-473-9461

CHEMTREC: 800-424-9300

GENERAL MSDS ASSISTANCE

SHELL: 713-241-4819

SECTION I | NAME

PRODUCT: SHELL ROTELLA(R) OIL 40

CHEM NAME: MIXTURE (SEE SECTION II-A)

ACUTE HEALTH HAZARD: 1

CHEM FAMILY: PETROLEUM HYDROCARBON; MOTOR OIL

FIRE HAZARD: 1

SHELL CODE: 54004

REACTIVITY: 0

SECTION II-A | PRODUCT/INGREDIENT

NO.	COMPOSITION	CAS	PERCENT
P	SHELL ROTELLA OIL 40	MIXTURE	100
1	SOL. REF., HYDROTREATED, ACID TREATED HEAVY NAPHTHENIC DIST.	64742-18-3	40
2	SOL. REF., CATALYTIC DEWAXED HEAVY PARAFFINIC OIL	64742-70-7	0-40
3	SOLVENT REFINED, HYDROTREATED, HEAVY PARAFFINIC DISTILLATE	64742-54-7	0-35
4	SOLVENT REFINED, HYDROTREATED, RESIDUAL OIL	64742-57-0	0-10
5	ADDITIVE CONTAINING:	MIXTURE	10-20
5A	ZINC DIALKYL DITHIOPHOSPHATE		
5B	CALCIUM ALKYL DITHIOPHOSPHATE		
5C	MAGNESIUM LONG-CHAIN ALKARYL SULFONATE		
6	MINOR ADDITIVE	MIXTURE	<1

NFPA HAZARD RATING: HEALTH 0 FIRE 1 REACTIVITY 0

SECTION II-B | ACUTE TOXICITY DATA

NO. ACUTE ORAL LD50 ACUTE DERMAL LD50 ACUTE INHALATION LC50

HER 01548

P NOT AVAILABLE

BASED UPON DATA AVAILABLE TO SHELL, COMPONENT 6 IN THIS PRODUCT IS NOT HAZARDOUS UNDER OSHA HAZARD COMMUNICATION (29 CFR 1910.1200).

SECTION III | HEALTH INFORMATION

THE HEALTH EFFECTS NOTED BELOW ARE CONSISTENT WITH REQUIREMENTS UNDER THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200).

EYE CONTACT:

LUBRICATING OILS ARE GENERALLY CONSIDERED NO MORE THAN MINIMALLY IRRITATING TO THE EYES.

SKIN CONTACT:

LUBRICATING OILS ARE GENERALLY CONSIDERED NO MORE THAN MILDLY IRRITATING TO THE SKIN. PROLONGED OR REPEATED CONTACT MAY RESULT IN VARIOUS SKIN DISORDERS SUCH AS DERMATITIS, FOLLICULITIS OR OIL ACNE.

INHALATION:

INHALATION OF VAPOR (GENERATED AT HIGH TEMPERATURES ONLY) OR OIL MIST FROM THIS PRODUCT MAY RESULT IN MILD IRRITATION OF THE UPPER RESPIRATORY TRACT.

INGESTION:

LUBRICATING OILS ARE GENERALLY CONSIDERED NO MORE THAN SLIGHTLY TOXIC IF SWALLOWED.

SIGNS AND SYMPTOMS:

IRRITATION AS NOTED ABOVE.

AGGRAVATED MEDICAL CONDITIONS:

PREEXISTING SKIN AND RESPIRATORY DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

OTHER HEALTH EFFECTS:

THIS PRODUCT AND ITS COMPONENTS ARE NOT CLASSIFIED AS CARCINOGENS BY INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC), NATIONAL TOXICOLOGY PROGRAM (NTP) OR OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA). THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER HAS DETERMINED THERE IS SUFFICIENT EVIDENCE FOR THE CARCINOGENICITY IN EXPERIMENTAL ANIMALS OF USED MOTOR OILS. HANDLING PROCEDURES AND SAFETY PRECAUTIONS IN THE MSDS SHOULD BE FOLLOWED TO MINIMIZE EMPLOYEE'S EXPOSURE TO THE USED PRODUCT.

SEE SECTION VI FOR ADDITIONAL HEALTH INFORMATION.

SECTION IV | OCCUPATIONAL EXPOSURE LIMITS

OSHA

ACGIH

HER 01549

NO.	PEL/TWA	PEL/CEILING	TLV/TWA	TLV/STEL	OTHER
P	5 MG/M3*	NONE	5 MG/M3*	10 MG/M3*	

*OIL MIST, MINERAL

SECTION V | EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: FLUSH WITH WATER FOR 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION.

SKIN CONTACT: REMOVE CONTAMINATED CLOTHING AND WIPE EXCESS OFF. WASH WITH SOAP AND WATER OR A WATERLESS HAND CLEANER FOLLOWED BY SOAP AND WATER. IF IRRITATION OCCURS, GET MEDICAL ATTENTION.

INHALATION: REMOVE VICTIM TO FRESH AIR AND PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GET MEDICAL ATTENTION.

INGESTION: DO NOT INDUCE VOMITING. IN GENERAL NO TREATMENT IS NECESSARY UNLESS LARGE QUANTITIES OF PRODUCT ARE INGESTED. HOWEVER, GET MEDICAL ATTENTION.

NOTE TO PHYSICIAN: IN GENERAL, EMESIS INDUCTION IS UNNECESSARY IN HIGH VISCOSITY, LOW VOLATILITY PRODUCTS, I.E., MOST OILS AND GREASES.

SECTION VI | SUPPLEMENTAL HEALTH INFORMATION

SUPPLIER OF COMPONENT 5 REPORTS THE FOLLOWING: "EPA HAS BEEN NOTIFIED OF SUBSTANTIAL RISK REPORTS UNDER TSCA SECTION 8(E) ON ZINC DITHIOPHOSPHATES BASED ON RABBIT DERMAL STUDIES AND ON IN-VITRO MUTAGENIC STUDIES. STUDIES PERFORMED AFTER THE NOTIFICATION INDICATE THAT ZINC DITHIOPHOSPHATES DO NOT APPEAR TO PRESENT A SIGNIFICANT HEALTH RISK WHEN PROPER HYGIENE AND PERSONAL PROTECTION PRECAUTIONS ARE FOLLOWED."

SUPPLIER OF COMPONENT 5 REPORTS THAT THE CALCIUM ALKYL DITHIOPHOSPHATE AND THE MAGNESIUM LONG-CHAIN ALKARYL SULFONATE ARE DERMAL SENSITIZERS IN GUINEA PIGS. HOWEVER, BASED ON TEST RESULTS AT END-USE CONCENTRATIONS, THE SUPPLIER BELIEVES THAT THIS COMPONENT IS NOT A SENSITIZER IN FINISHED OIL.

SECTION VII | PHYSICAL DATA

HER 01550

BOILING POINT (DEG F): SPECIFIC GRAVITY (H2O=1): VAPOR PRESSURE (MM HG):
NOT AVAILABLE 0.9059 NOT AVAILABLE

MELTING POINT (DEG F): SOLUBILITY (IN WATER): VAPOR DENSITY (AIR=1):
0 (POUR POINT) NEGLIGIBLE NOT AVAILABLE

EVAPORATION RATE (NORMAL BUTYL ACETATE = 1): NOT AVAILABLE

APPEARANCE AND ODOR: DARK AMBER OIL. SLIGHT HYDROCARBON ODOR.

SECTION VIII | FIRE AND EXPLOSION HAZARDS

FLASH POINT AND METHOD: FLAMMABLE LIMITS/% VOLUME IN AIR:
375 DEG F (PMCC) LOWER: N/AV UPPER: N/AV

EXTINGUISHING MEDIA:

USE WATER FOG, FOAM, DRY CHEMICAL OR CO2. DO NOT USE A DIRECT STREAM OF WATER. PRODUCT WILL FLOAT AND CAN BE REIGNITED ON SURFACE OF WATER.

SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS:

MATERIAL WILL NOT BURN UNLESS PREHEATED. DO NOT ENTER CONFINED FIRE-SPACE WITHOUT FULL BUNKER GEAR (HELMET WITH FACE SHIELD, BUNKER COATS, GLOVES AND RUBBER BOOTS), INCLUDING A POSITIVE-PRESSURE NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

SECTION IX | REACTIVITY

STABILITY: STABLE HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS AND MATERIALS TO AVOID:

AVOID HEAT, OPEN FLAMES AND OXIDIZING MATERIALS.

HAZARDOUS DECOMPOSITION PRODUCTS:

THERMAL DECOMPOSITION PRODUCTS ARE HIGHLY DEPENDENT ON THE COMBUSTION CONDITIONS. A COMPLEX MIXTURE OF AIRBORNE SOLID, LIQUID, PARTICULATES AND GASES WILL EVOLVE WHEN THIS MATERIAL UNDERGOES PYROLYSIS OR COMBUSTION. CARBON MONOXIDE AND OTHER UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED UPON COMBUSTION.

SECTION X | EMPLOYEE PROTECTION

RESPIRATORY PROTECTION:

HER 01551

IF EXPOSURE MAY OR DOES EXCEED OCCUPATIONAL EXPOSURE LIMITS (SECTION IV) USE A NIOSH-APPROVED RESPIRATOR TO PREVENT OVEREXPOSURE. IN ACCORD WITH 29 CFR 1910.134 USE EITHER AN ATMOSPHERE-SUPPLYING RESPIRATOR OR AN AIR-PURIFYING RESPIRATOR FOR ORGANIC VAPORS AND PARTICULATES.

PROTECTIVE CLOTHING:

WEAR CHEMICAL RESISTANT GLOVES AND OTHER PROTECTIVE CLOTHING AS REQUIRED TO MINIMIZE SKIN CONTACT. WEAR SAFETY GOGGLES TO AVOID EYE CONTACT. TEST DATA FROM PUBLISHED LITERATURE AND/OR GLOVE AND CLOTHING MANUFACTURERS INDICATE THE BEST PROTECTION IS PROVIDED BY NITRILE GLOVES.

ADDITIONAL PROTECTIVE MEASURES:

SECTION XI | ENVIRONMENTAL PROTECTION

SPILL OR LEAK PROCEDURES:

MAY BURN ALTHOUGH NO READILY IGNITABLE. USE CAUTIOUS JUDGMENT WHEN CLEANING UP LARGE SPILLS. *** LARGE SPILLS *** WEAR RESPIRATOR AND PROTECTIVE CLOTHING AS APPROPRIATE. SHUT OFF SOURCE OF LEAK IF SAFE TO DO SO. DIKE AND CONTAIN. REMOVE WITH VACUUM TRUCKS OR PUMP TO STORAGE SALVAGE VESSELS. SOAK UP RESIDUE WITH AN ABSORBENT SUCH AS CLAY, SAND, OR OTHER SUITABLE MATERIALS; DISPOSE OF PROPERLY. FLUSH AREA WITH WATER TO REMOVE TRACE RESIDUE. *** SMALL SPILLS *** TAKE UP WITH AN ABSORBENT MATERIAL AND DISPOSE OF PROPERLY.

SECTION XII | SPECIAL PRECAUTIONS

MINIMIZE SKIN CONTACT. WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES. LAUNDRY CONTAMINATED CLOTHING BEFORE REUSE. PROPERLY DISPOSE OF CONTAMINATED LEATHER ARTICLES, INCLUDING SHOES, THAT CANNOT BE DECONTAMINATED.

STORE IN A COOL, DRY PLACE WITH ADEQUATE VENTILATION. KEEP AWAY FROM OPEN FLAMES AND HIGH TEMPERATURES.

SECTION XIII | TRANSPORTATION REQUIREMENTS

DEPARTMENT OF TRANSPORTATION CLASSIFICATION:
NOT HAZARDOUS BY D.O.T. REGULATIONS

D.O.T. PROPER SHIPPING NAME:

OTHER REQUIREMENTS:

HER 01552

SECTION XIV | OTHER REGULATORY CONTROLS

THE COMPONENTS OF THIS PRODUCT ARE LISTED ON THE EPA/TSCA INVENTORY OF CHEMICAL SUBSTANCES.

PROTECTION OF STRATOSPHERIC OZONE (PURSUANT TO SECTION 611 OF THE CLEAN AIR ACT AMENDMENTS OF 1990): PER 40 CFR PART 82, THIS PRODUCT DOES NOT CONTAIN NOR WAS IT DIRECTLY MANUFACTURED WITH ANY CLASS I OR CLASS II OZONE DEPLETING SUBSTANCES.

IN ACCORDANCE WITH SARA TITLE III, SECTION 313, THE ENVIRONMENTAL DATA SHEET (EDS) SHOULD ALWAYS BE COPIED AND SENT WITH THE MSDS.

SECTION XV | STATE REGULATORY INFORMATION

THE FOLLOWING CHEMICALS ARE SPECIFICALLY LISTED BY INDIVIDUAL STATES; OTHER PRODUCT SPECIFIC HEALTH AND SAFETY DATA IN OTHER SECTIONS OF THE MSDS MAY ALSO BE APPLICABLE FOR STATE REQUIREMENTS. FOR DETAILS ON YOUR REGULATORY REQUIREMENTS YOU SHOULD CONTACT THE APPROPRIATE AGENCY IN YOUR STATE.

STATE LISTED COMPONENT	CAS NUMBER	PERCENT	STATE CODE
SOL. REF., HYDROTREATED ACID TREATED HEAVY NAPHTHENIC DIST.	64742-18-3	40	MA
SOL. REF., CATALYTIC DEWAXED HEAVY PARAFFINIC DIST.	64742-70-7	0-40	MA

CA = CALIFORNIA HAZ. SUBST. LIST; CA65 = CALIFORNIA SAFE DRINKING WATER AND TOXICS ENFORCEMENT ACT LIST; FL = FLORIDA SUBST. LIST; IL = ILLINOIS TOX. SUBST. LIST; MA = MASSACHUSETTS SUBST. LIST; ME = MAINE HAZ SUBST. LIST; MN = MINNESOTA HAZ. SUBST. LIST; NJ = NEW JERSEY HAZ. SUBST. LIST; PA = PENNSYLVANIA HAZ. SUBST. LIST; RI - RHODE ISLAND HAZ. SUBST. LIST.

SECTION XVI | SPECIAL NOTES

REVISIONS WERE MADE IN SECTION XV.

THE INFORMATION CONTAINED HEREIN IS BASED ON THE DATA AVAILABLE TO US AND IS BELIEVED TO BE CORRECT. HOWEVER, SHELL MAKES NO WARRANTY, EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF. SHELL ASSUMES NO RESPONSIBILITY FOR INJURY FROM THE USE OF THE PRODUCT DESCRIBED HEREIN.

WE ARE PROVIDING OUR MOST RECENT MATERIAL SAFETY DATA SHEET AND/OR ENVIRONMENTAL DATA SHEET. IF YOU WISH TO RECEIVE UPDATES TO THIS INFORMATION, PLEASE CALL SHELL'S GENERAL MSDS ASSISTANCE LINE (713-241-4819) TO ENSURE THAT

HER 01553

YOU ARE ADDED TO SHELL'S REGULAR MSDS DISTRIBUTION SYSTEM.

BE SAFE. READ OUR PRODUCT
SAFETY INFORMATION...AND
PASS IT ON. (PRODUCT
LIABILITY LAW REQUIRES IT)

SHELL OIL COMPANY
PRODUCT SAFETY AND COMPLIANCE
P. O. BOX 4320
HOUSTON, TX. 77210

***** ENVIRONMENTAL DATA SHEET 71240 - 03 *****

EDS: 71240 - 03 03/07/91

PRODUCT NAME: SHELL ROTELLA(R) OIL 40
PRODUCT CODE: 54004

MANUFACTURER'S NAME AND ADDRESS

SHELL OIL COMPANY
P.O. BOX 4320
HOUSTON, TX 77210

TELEPHONE NUMBERS:

24 HOUR EMERGENCY ASSISTANCE
SHELL: 713-473-9461 CHEMTREC: 800-424-9300

FOR ADDITIONAL INFORMATION ON THIS ENVIRONMENTAL DATA PLEASE
CALL 713-241-2252

SECTION I | PRODUCT COMPOSITION

NO.	COMPOSITION	CAS	PERCENT
P	SHELL ROTELLA OIL 40	MIXTURE	100
1	SOL. REF., HYDROTREATED, ACID TREAT ED HEAVY NAPHTHENIC DIST.	64742-18-3	40
2	SOL. REF., CATALYTIC DEWAXED HEAVY PARAFFINIC OIL	64742-70-7	0-40
3	SOLVENT REFINED, HYDROTREATED, HEAVY PARAFFINIC DISTILLATE	64742-54-7	0-35
4	SOLVENT REFINED, HYDROTREATED, RESIDUAL OIL	64742-57-0	0-10
5	ADDITIVE CONTAINING:	MIXTURE	10-20
5A	ZINC DIALKYL DITHIOPHOSPHATE		0.120
5B	CALCIUM ALKYL DITHIOPHOSPHATE		0.170
5C	MAGNESIUM LONG-CHAIN ALKARYL SULFONATE		0.130
6	MINOR ADDITIVE	MIXTURE	<1

SECTION II | SARA TITLE III INFORMATION

NO. EHS RQ*	EHS TPQ*	SEC-313	313 CATEGORY	311/312 CATEGORY
(*1)	(*2)	(*3)	(*4)	(*5)

HER 01554

5A	YES	ZINC COMPOUNDS	H-2
5B			H-1
5C			H-1

-
- *1 = REPORTABLE QUANTITY OF EXTREMELY HAZARDOUS SUBSTANCE, SEC 302
 - *2 = THRESHOLD PLANNING QUANTITY, EXTREMELY HAZARDOUS SUBSTANCE, SEC 302
 - *3 = TOXIC CHEMICAL, SEC 313
 - *4 = CATEGORY AS REQUIRED BY SEC 313 (40 CFR 372.42), MUST BE USED ON TOXIC
RELEASE INVENTORY FORM
 - *5 = HAZARD CATEGORY FOR SARA SEC. 311/312 REPORTING
 - HEALTH: H-1 = IMMEDIATE (ACUTE) HEALTH HAZARD
 - H-2 = DELAYED (CHRONIC) HEALTH HAZARD
 - PHYSICAL: P-3 = FIRE HAZARD
 - P-4 = SUDDEN RELEASE OF PRESSURE HAZARD
 - P-5 = REACTIVE HAZARD
-

SECTION III | ENVIRONMENTAL RELEASE INFORMATION

THIS PRODUCT IS CLASSIFIED AS AN OIL UNDER SECTION 311 OF THE CLEAN WATER ACT. SPILLS ENTERING (A) SURFACE WATERS OR (B) ANY WATER COURSES OR SEWERS ENTERING/LEADING TO SURFACE WATERS THAT CAUSE A SHEEN MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER. 800-424-8802.

SECTION IV | RCRA INFORMATION

PLACE IN AN APPROPRIATE DISPOSAL FACILITY IN COMPLIANCE WITH LOCAL REGULATIONS.

WE ARE PROVIDING OUR MOST RECENT MATERIAL SAFETY DATA SHEET AND/OR ENVIRONMENTAL DATA SHEET. IF YOU WISH TO RECEIVE UPDATES TO THIS INFORMATION, PLEASE CALL SHELL'S GENERAL MSDS ASSISTANCE LINE (713-241-4819) TO ENSURE THAT YOU ARE ADDED TO SHELL'S REGULAR MSDS DISTRIBUTION SYSTEM.

SHELL OIL COMPANY
P.O. BOX 4320
HOUSTON, TX 77210

FOR ADDITIONAL INFORMATION ON THIS ENVIRONMENTAL DATA PLEASE CALL
(713) 241-2252

FOR EMERGENCY ASSISTANCE PLEASE CALL
SHELL: (713) 473-9461
CHEMTREC: (800) 424-9300

HER 01555

THIS MSDS HAS BEEN PROVIDED IN AN ELECTRONIC FORMAT FOR USE IN THE CHEMTREC
EMERGENCY RESPONSE PROGRAM AND/OR OTHER APPROVED PROGRAMS. THIS FORMAT MAY
CONTAIN BLANKS WHERE INFORMATION WAS NOT AVAILABLE OR NOT APPLICABLE AND
THEREFORE MAY NOT BE FULLY COMPLIANT WITH THE OSHA HAZARD COMMUNICATION
STANDARD. IF YOU PURCHASE OR USE THIS SHELL PRODUCT AND HAVE NOT RECEIVED
A MSDS FROM SHELL PLEASE CONTACT US AND WE WILL PROVIDE ONE. THIS WILL ENSURE
THAT YOU RECEIVE UPDATES OF THIS INFORMATION.

HERCULES OFFSHORE CO.

**MARINE REPAIR
ORDER No.**

4486

MARINE OPERATIONS FACILITY

INVOICE NO. _____

CUSTOMER P.O. _____

D A T E	ORDER WRITTEN	ETA
	ARRIVAL <u>1-6-95</u>	
	COMPLETION DATE <u>1-6-95</u>	
	DEPARTURE DATE <u>1-6-95</u>	
M/V <input type="checkbox"/> BARGE <input type="checkbox"/>		
NAME LOA		BIRTH
FOREMAN		
LAST PRODUCT		
GAS FREEING YES <input type="checkbox"/> NO <input type="checkbox"/> CERTIFICATE REQUIRED YES <input type="checkbox"/> NO <input type="checkbox"/>		
HAUL OUT FOR INSPECTION AND REPAIR YES <input type="checkbox"/> NO <input type="checkbox"/>		
ON WAYS		DATE: _____
ON WAYS		DATE: _____

C U S T O M E R	NAME <u>Ivey</u>
	BILLING ADDRESS
	CITY AND STATE
	PHONE NUMBER
WORK AUTHORIZED BY <u>FRANK</u>	
STOCK MATERIAL <input type="checkbox"/> YES <input type="checkbox"/> NO	
IF YES, COMPLETE STOCK MATERIAL TRANSFER TICKET	
OUTSIDE SERVICES <input type="checkbox"/> YES <input type="checkbox"/> NO	
IF YES, LIST	

ITEM NUMBERS

1 Lead out drums

2

3

4

5

6

7

8

9

10

THIS SHALL SERVE AS YOUR AUTHORIZATION TO PROCEED WITH THE ABOVE.

Signed: _____ Date: _____

HER 01557

HERCULES OFFSHORE CO.

MARINE REPAIR

ORDER No. 4486

MARINE OPERATIONS FACILITY

INVOICE NO. _____

CUSTOMER P.O. _____

DATE	ORDER WRITTEN	ETA
	ARRIVAL	
	COMPLETION DATE	
	DEPARTURE DATE	
M/V <input type="checkbox"/> BARGE <input type="checkbox"/>		
NAME		
LOA		BIRTH
FOREMAN		
LAST PRODUCT		
GAS FREEING YES <input type="checkbox"/> NO <input type="checkbox"/> CERTIFICATE REQUIRED YES <input type="checkbox"/> NO <input type="checkbox"/>		
HAUL OUT FOR INSPECTION AND REPAIR YES <input type="checkbox"/> NO <input type="checkbox"/>		
ON WAYS		DATE: _____
ON WAYS		DATE: _____

CUSTOMER	NAME	<u>Ivey</u>
	BILLING ADDRESS	
	CITY AND STATE	
	PHONE NUMBER	
WORK AUTHORIZED BY		CITY AUTHORIZED BY
<u>FRANK</u>		
STOCK MATERIAL <input type="checkbox"/> YES <input type="checkbox"/> NO		
IF YES, COMPLETE STOCK MATERIAL TRANSFER TICKET		
OUTSIDE SERVICES <input type="checkbox"/> YES <input type="checkbox"/> NO		
IF YES, LIST		

ITEM NUMBERS

- 1 Lead oil drums
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

THIS SHALL SERVE AS YOUR AUTHORIZATION TO PROCEED WITH THE ABOVE.

Signed: _____ Date: _____

HER 01558